USA Ground Operations CIL Sheet

AUG 2 3 1999

Critical Item: Valve, Butterfly

NASA Part No: None

Criticality Category: 1S

Total Quantity: 5

Mfg/Part No:

McCanna, Inc. / 8 L300-CS-R-S6/R640/SP2

System:

Facility Water System

Find No.	Qty	Area	0.00		
A36989 (V-11A)	- Gity	· · · · · · · · · · · · · · · · · · ·	PMN	Baseline	Drawing / Sheet
		Pad-A	K60-0052	007.00	79K06011 / 8
A36990 (V-11)	1	Pad-A	K60-0052	007.00	
A37023 (V-12)	1	Pad-A	K61-3370		79K06011 / 8
A37037 (V-10A)		<u> </u>		007.00	79K06011/7
A37039 (V-10)		Pad-A	K60-0049	007.00	79K06011 / 7
A37039 (V-10)	1	Pad-A	K60-0049	007.00	79K06011 / 7

Function:

Controls water flow to the firex/deluge spray nozzles in the associated area.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method	Crit
09SY03A-001.018	Correcion contemios in	Time to Effect	Cat
Fail closed	Corrosion, contamination, or failure of internal piece part.	Valve position switch	1\$
	Loss of water flow to the firex/deluge spray nozzles in the associated area. Possible loss of life and/or vehicle during a hazardous condition.	Immediate	

ACCEPTANCE RATIONALE

Design:

- Rated working pressure 675 psig.
- Actual working pressure 220 psig.
- Rated temperature (degrees Farenheit) -20 to 195.
- Actual temperature is ambient pad temperature.

Test:

- OMI M2088 requires cycling of perimeter area water valves to verify proper operation.
- OMRSD, File VI requires verification of the operational function of the water valves in all modes of operation annually and at replacement.

Inspection:

OMI 6045 requires the inspection of the firex valves for signs of corrosion and/or contamination.

Failure History:

- · Current data on test failures, unexplained anomalies, and other failures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no failure data was found on this component in the critical failure mode.
- The GIDEP failure data interchange was researched and no failure data was found on this component in the critical failure mode.

Operational Use:

Correcting Action	
	Timeframe
There is no action which can be taken to mitigate the failure effect.	Since no correcting action is available,
	timeframe does not apply.